U.S. Army Computer Network Operations-Electronic Warfare Proponent (USACEWP)

US Army Combined Arms Center

Army Proponency

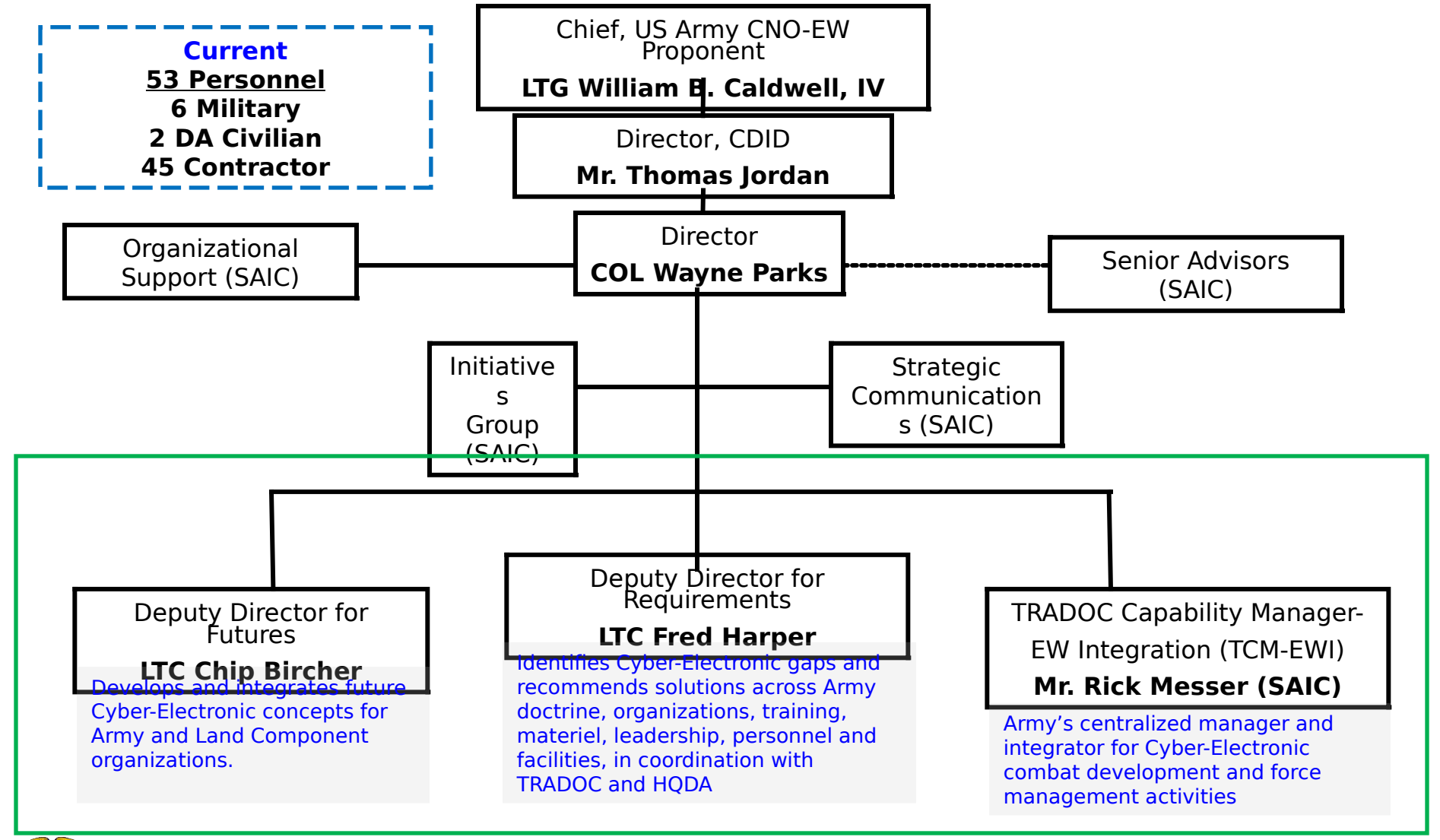
U.S. Army Computer Network Operations and Electronic Warfare Proponent (USACEWP)

Mission: Develop, synchronize, integrate, and coordinate the Army Culture and the CNO-EW Capabilities and Capacity across the DOTMLPF domains IOT prepare the Army and the Land Component for future challenges in Cyberspace.

Vision: Cyberspace and the broader electromagnetic spectrum (EMS) are optimized by soldiers and leaders who understand both the operational and technical dimensions of this segment of the operational environment and are outfitted with cyber and electronic capabilities enabling a broad range of joint, interagency, intergovernmental, and multinational activities during full spectrum operations while concurrently reducing risk to the force.

- Decision authority to synchronize, integrate, and coordinate CNO and EW with modularity and future requirements (AR 5-22; TRADOC Reg 10-5-4)
- Develop CNO and EW doctrine, organization, training, materiel, leadership and education, personnel, and facilities (DOTMLPF) requirements (AR 5-22; TRADOC Reg 10-5-4)
- Determine the scope of future CNO and EW capabilities development efforts (EW and CNO Proponent Charters; AR 5-22; EW and Information/Cyberspace ICDT Charters)
- Determine integration tasks for Army, Joint, Interagency, Intergovernmental, and Multinational computer network and electronic warfare operations (EW and CNO Proponent Charters; TRADOC Reg 10-5-4)
- Perform as the Army's centralized manager and integrator for CNO and EW combat development and force management activities (TRADOC Capability Manager Charter)

Current Organizational Structure


Current
53 Personnel
6 Military
2 DA Civilian
45 Contractor
Chief, US Army CNO-EW Proponent
LTG William B. Caldwell, IV
Director, CDID
Mr. Thomas Jordan
Organizational Support (SAIC)
Director
COL Wayne Parks
Senior Advisors (SAIC)
Initiatives Group (SAIC)
Strategic Communications (SAIC)
Deputy Director for Futures
LTC Chip Bircher
Develops and integrates future Cyber-Electronic concepts for Army and Land Component organizations.
Deputy Director for Requirements
LTC Fred Harper
Identifies Cyber-Electronic gaps and recommends solutions across Army doctrine, organizations, training, materiel, leadership, personnel and facilities, in coordination with TRADOC and HQDA
TRADOC Capability Manager-EW Integration (TCM-EWI)
Mr. Rick Messer (SAIC)
Army's centralized manager and integrator for Cyber-Electronic combat development and force management activities

EW – Where We Are

Doctrine, Concepts, and Organizational Design

- EW Capability Based Assessment underway
- Field Manual (FM) 3-36, Electronic Warfare, on-track for fall/winter 2008 release
- Conceptual development of new FM on Cyberspace
- Cyberspace Symposium Sep 22-25 will kick-off cyber-electronic ICDT
- EW FDU (full-time specialists, FY12 and beyond) approved by VCSA to compete in TAA 10-15 for resourcing

Leader Development & Education and Trai

- Tactical (ASI 1K) and Operational (ASI 1J) EW Courses in full production: over 1000 Joint graduates to date
- Mobile Training Teams deploying to provide unit-specific EW training for all deploying units
- EW Officer Functional Area Qualification Course (Pilot) ongoing at the Fires CoE
- LDE&T Plan underway to evolve from CNO-EW to Cyberspace

Personnel

- Military Occupational Classification and Structure packets for functional area forwarded to DA June 08; Enlisted MOS & Warrant Officer Career Field MOCS packets submitted to TRADOC July 08.
- Active management of Army trained personnel to begin replacing Navy EW personnel in theater
- Coordinating EW personnel requirements for Corps and Division designs

Materiel, Facilities & Resources

- Proponent maintains oversight of numerous EW Material Acquisition Programs
- Continuing to work resourcing constraints
- FY08 funding received; out-year funding is being integrated into budget submissions to Congress
  - FY09 dependent on Supplemental
  - FY10 requirements included in POM

Cyberspace: Where We're Headed
Information & Cyberspace ICDT

- **CAC and ARCIC establishing an Integrated Concept Development Team to chart the Way Ahead.**
  - Means to identify and align a required set of DOTMLPF solutions.
  - Leverages TRADOC integrating process
  - Produce Concept Capabilities Plan (CCP), Capabilities Based Assessment (CBA), and/or Integrating Concept
- **Lead: CG, CAC**
- **ICDT Chair Responsibilities**
  - Execute Charter, Conduct ICDT Meetings, Coordinate Formal Taskings
- **Participants: Core and Supporting Members**
  - Core: CAC, ARCIC; Fires, Intel, Maneuver, Aviation, Signal, and Maneuver Support COEs; JFK SWC; OCPA
  - Supporting: INSCOM, NETCOM, SMDC/ARSTRAT, USJFCOM, USMC, USN, USAF, DHS, HQDA Staff, TRADOC

USACEWP Significant Efforts

Develop Army CNO-EW Concepts and Doctrine

- ☑ Integrated EW requirements into Army Functional Concepts
- ☑ EW Concept Capability Plan (CCP): Approved by Dir, ARCIC
- ☑ Program Directive for FMI 3-36, Electronic Warfare approved.
- ☑ Final Draft of FMI 3-36 completed; out for Army-wide staffing.
- ❑ Publishing of FMI 3-36 scheduled for fall/winter 08.
- ❑ Cyberspace Symposium, Sep 22-25, will serve as first step toward CNO CCP

Establish Army EW Personnel and Force Structure Requirements

- ☑ ASIs established, recoding billets
- ☑ Interim Structure solution (FDU Jr.) approved
- ☑ EW FDU approved by VCSA to compete in TAA 10-15
- ☑ MOCS actions to create EW MOS and Functional Area at TRADOC and DA

Establish Training and Integrate EW into Leader Development

- ☑ Tactical and Operational Courses underway
- ☑ Army-wide Training Needs Assessment complete
- ☑ MTTs established to meet DA G-3 guidance for Army EW Initial Operating Capability
- ❑ EW Functional Area Qualification Course pilot course being conducted at Ft. Sill

Establish Materiel Requirement Process

- ☑ Integrated with JIEDDO for quick-look studies
- ☑ TCM-EWI Charter approved by CG TRADOC
- ❑ Creating MOUs with multiple combat/materiel development organizations (INSCOM, USMC MCCDC)
- ❑ Conducting EW Capabilities Based Assessment (CBA) to identify Army EW requirements, gaps, proposed solution: FAA in final staffing, FNA underway

Establish Proponent Capability and Capacity

- ☑ EW Proponent established as separate CAC MSO
- ☑ EW Proponent designated Personnel Proponent for EW
- ❑ Concept Plan approved by TRADOC, at DAMO-FM for staffing
- ❑ FY08 and beyond resource requirements / POM

Director's Initiatives

Vision: A Community of Practice where members routinely coordinate on a shared vision of Information, Cyberspace, and the broader electromagnetic spectrum (EMS) in order to develop complementary information, cyber and electronic capabilities that enable a broad range of joint, inter governmental, inter agency and multi national activities during operations while concurrently reducing risk to the Land Component in support of the Joint Force Commander.

INSCOM Partnership

Final draft of MOA under review by INSCOM; ready for joint signature by August 15

Land Component Partnership

Draft MOA under review by MCCDC

Cyber-Electronic University Consortium

Face-to-face meetings with KU and KSU have been held; KSU recommended partnership with Big 12 Engineering Consortium

Industry Partnerships

Informal Director-level talks to determine way ahead

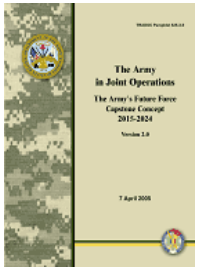
Challenges

- **Establishment of the Proponent**
  - **Resourcing of approved TDA**
  - **FY09 and FY10 Funding**
  - **CNO Integration into the Proponent**
- **Building 391 Operating Improvements**
  - **Cyber-Electronic capabilities (phone lines, VTC, ISDN, bandwidth)**
  - **Space utilization and optimization**
  - **Classified Access (JWICS/SIPR/STO)**
- **CAC Roles and Duplicative Efforts across the Army**
  - **Proponent still capturing and integrating disparate efforts**
  - **Often a rush to materiel solutions first**
  - **CAC OPORD to clarify EW roles and responsibilities**
- **Synchronizing Concepts and Capabilities** (Slide 11, 12)
- **Capability Development and Process timelines** (Slide 13)
- **Leveraging Intellectual Capacity outside the Army**

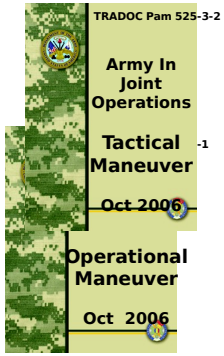
Synchronizing Concepts & Capabilities

Army Family of Concepts

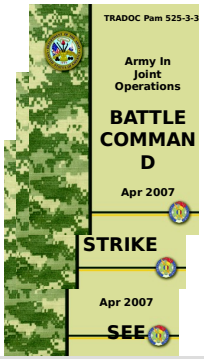
Capstone Concept

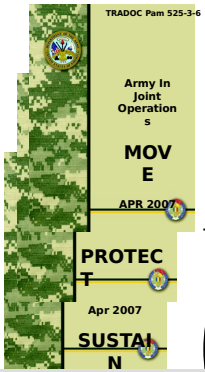


Operating Concepts

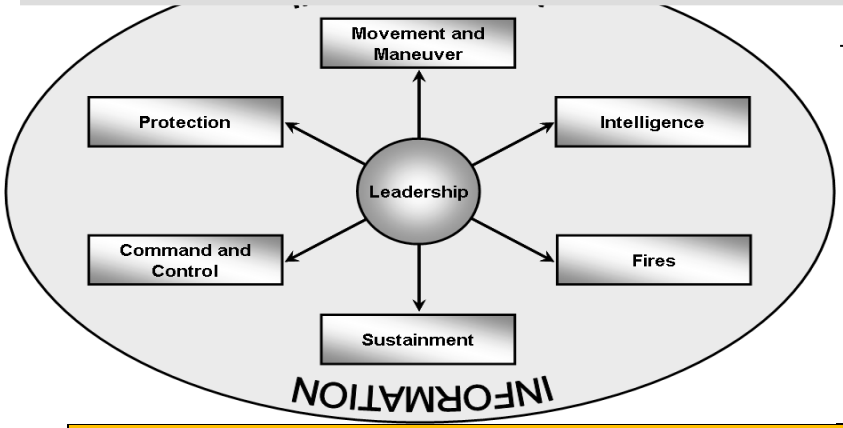


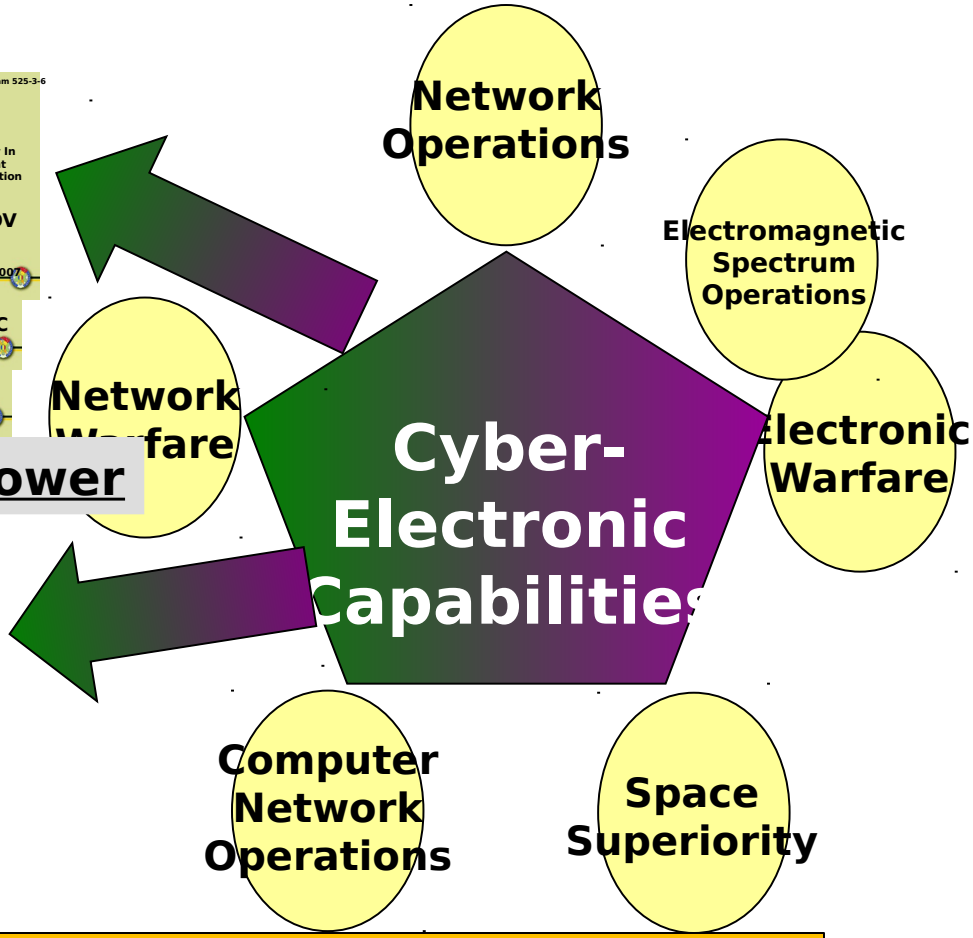
Functional Concepts





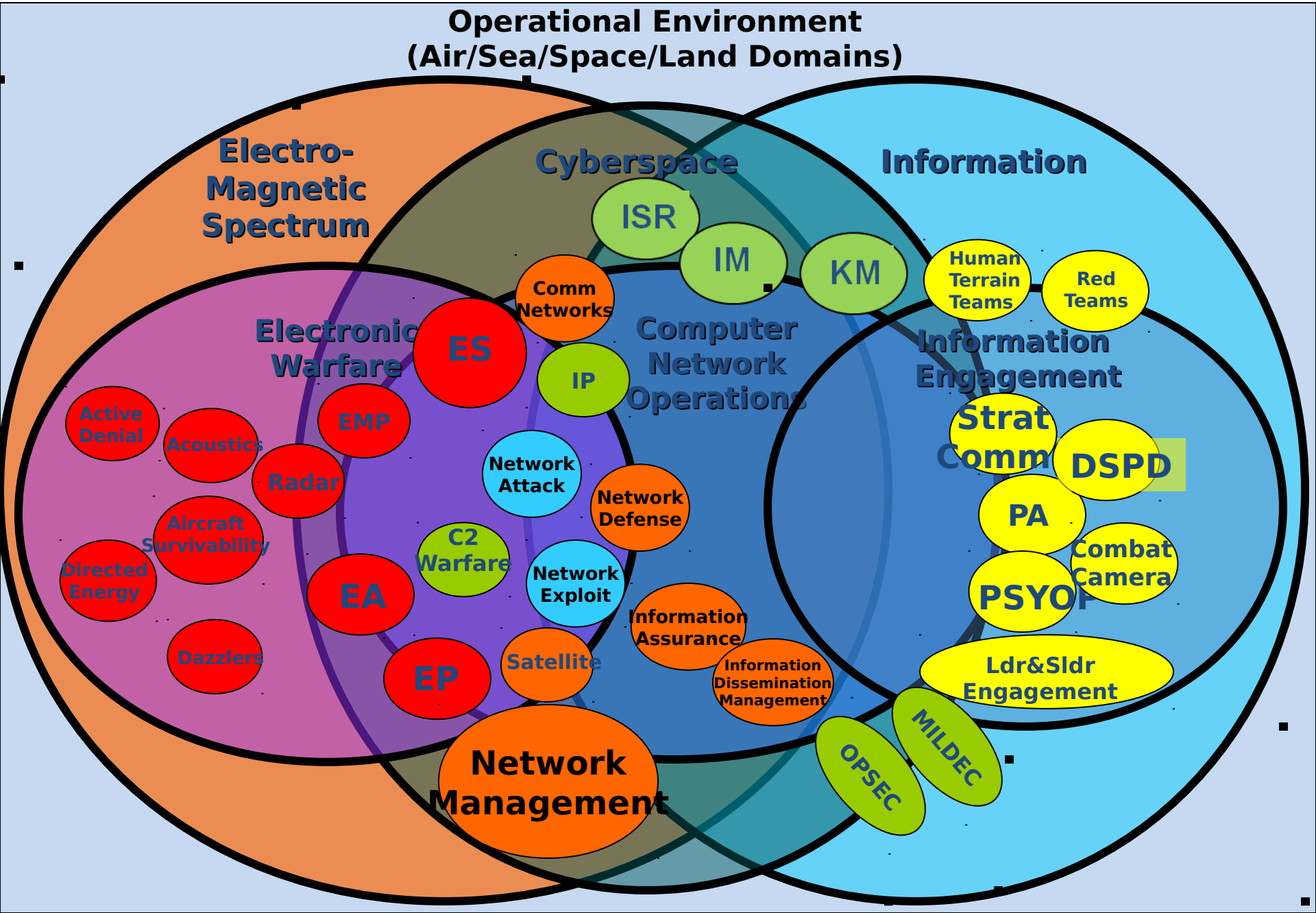
FM 3-0 Elements of Combat Power





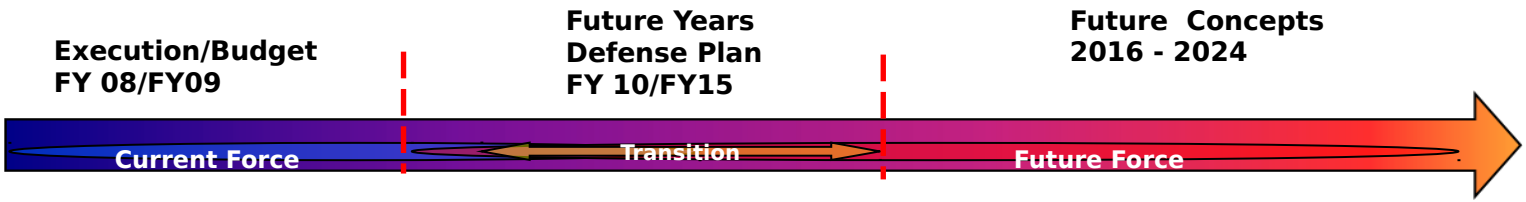
Integrated joint capability for battle command and the Commander's combined arms approach to full spectrum operations

Information & Cyberspace



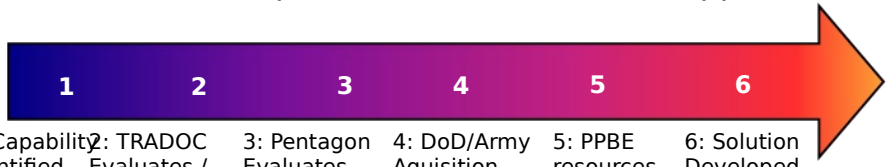
Capability Development & Process Timelines

DoD Budgetary Process and Policy



JCIDS Process

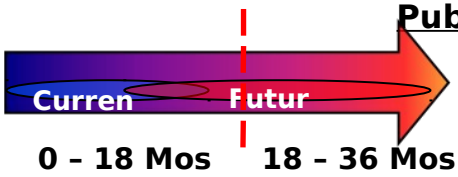
Traditional: a complete/ detailed DOTMLPF approach for a general solution for the entire Army



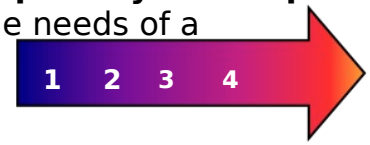
1: Capability Identified
2: TRADOC Evaluates / Documents solution
3: Pentagon Evaluates
4: DoD/Army Aquisition Executive Approves
5: PPBE resources
6: Solution Developed

Delivery time to field:
5-7 Years

Public Sector Business Strategy Cycle

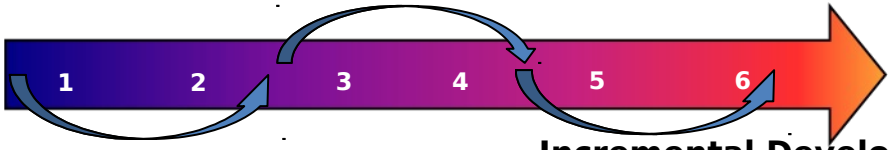


Capability Development Rapid Transition (CDRT): [Rapid Equipping]: a timely/rapid solution focused on the needs of a specific unit



1. Troops identify capability
2. REF field team evaluates
3. Money taken from operational or program accounts
4. Solution developed

Delivery time to field:
3-6 Months

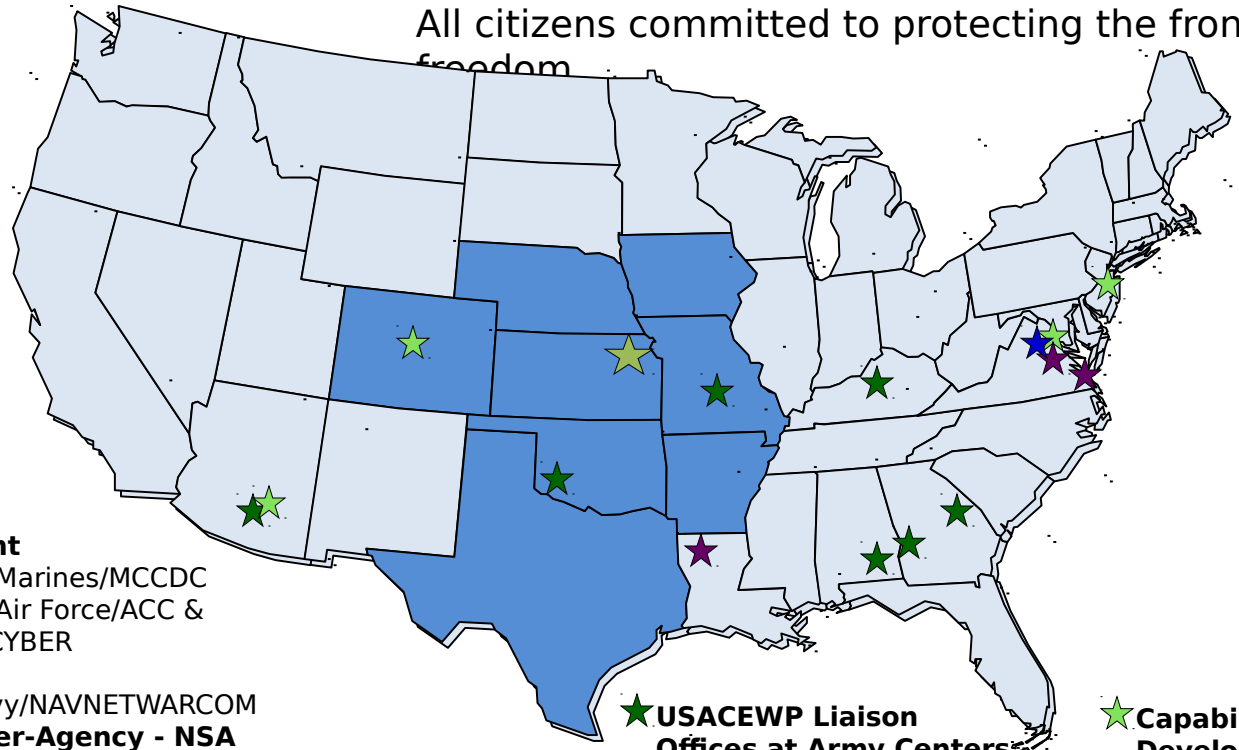


Spiral Development: process to where desired capability identified but the end state requirements not known. Updated and revalidated on a schedule using risk management.

Incremental Development: process to where desired capability identified, an end state is known. Requirement met by developing several increments, each dependent on available mature technology.

USACEWP Partners & Constituencies

All citizens committed to protecting the frontiers of freedom



Joint
- Marines/MCCDC
- Air Force/ACC & AFCYBER
- Navy/NAVNETWARCOM

Inter-Agency - NSA
Inter-Governmental
Multinational

Great Plains Cyber-Electronic University Consortium
(proposed)

USACEWP Liaison Offices at Army Centers of Excellence
Fort Gordon
Fort Benning
Fort Rucker
Fort Knox
Fort Sill
Fort Huachuca
Fort Leonard Wood*

Capability Development partnership with:
INSCOM
NETCOM
RDECOM
SMDC/ARSTRAT